

# Analysis of tap water compared to untreated water

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## Description of the methods we used:

In every test we tested both types of water. Tap water and untreated water. The untreated water came directly from the freshwater source in our area. We used the lab where they make the tap water in our districts.

### Ph:

Measure of the pH

We used pH-meter and buffer (4,01, 10,01 and 7,00).

We cleaned the pHmeter with distilled water after each use.

We tested the untreated water first, and we took the pHmeter in to the buffer

4,01 and we waited to the pH-meter machine said that it

was ready to go on. When it was ready we cleaned the pHmeter with distilled water and took the pH-meter in to the buffer 7.00.

We waited again until it was ready, and then we cleaned the pH-meter again. We took then a little glass with the water we were going to test.

We did it with to types of water. And we did the same with both types of water.



### Temperature:

We used just a digital thermometer

We put the digital thermometer in the water and the results came up on the display.

We did that with both the types of water.



### Hardness:

We used GH test. First we took 5mm water in the **measure glass**, and then we added some drops from the GH-test kit into the measure glass. We counted how many drupes we added the measure glass until it changed



color from green to red. The number of drupes we counted told us the hardness of the water.

### Transparency:

We used a laser beam and we send it trough five cm of water and we measured how many percent of the light came trough the water.

The machine used a UV light to measure the transparency.

We used this weird machine that was named HACH DR 5000.



HACH DR 5000

### Chloride:

We used the same machine that we used to measured the transparency.

We took a little test-tube with a little water and some white powder, then after 2 minutes we put it in the machine and then it found out how many chloride it was in the water. Then we took it out and put some drupes in the little test tube.

It used 2 minutes to react, then we put it in the machine again. We did it with all the types of water.

Approximate measure of hardness through electrical conductivity



### Results:

Parameters	Untreated water	Water at school/tap water
pH	5.81	7.8
Temp	3.5 °C	
Transparency thought 5cm water	48.6%	52.2%
Hardness	1GH	4GH
Chloride	0,023mg/l	0,084mg/l